

Curriculum Vitae

Kristin L. Latham-Scott

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EDUCATION

Ph.D.	Molecular and Cellular Biology Oregon State University, Corvallis, OR Title: Regulation by Male-Specific <i>fruitless</i> of Neural Circuitry Used during Courtship and Copulation Behavior in <i>Drosophila melanogaster</i> .	2005
B.S.	Biology Major, Research Emphasis; Minors in Chemistry, Music <i>Magna Cum Laude</i> (GPA above 3.75) Pacific Lutheran University, Tacoma, WA	1998

TEACHING EXPERIENCE

Willamette Promise , Willamette Education Service District/Western Oregon University	2018-present
General Biology (BI 101 and BI 102) – coordinate assessment, organize professional development, and troubleshoot questions for participating Oregon teachers	
Associate Professor , Western Oregon University, Monmouth, OR	2013-present
General Biology (BI 102), Principles of Biology (BI 211), Introductory Genetics (BI 314), Genes and Development (BI 426), Human Heredity (BI 441/541)	
Assistant Professor , Western Oregon University, Monmouth, OR	2008-2013
Instructor , Oregon State University, Corvallis, OR	2010-2018
Principles of Biology (BI 212)	
Co-instructor , Oregon State University, Corvallis, OR	2007
Techniques in Molecular Biology (MCB525)	
Visiting Assistant Professor , Willamette University, Salem, OR	2005-2006
Cell Biology and Genetics (BIOL 130), Gene Structure and Function (BIOL 333), Genes and Development (BIOL 470), Cell Biology and Genetics Laboratory (BIOL 130Y), Gene Structure and Function Laboratory (BIOL 333Y), Human Heredity Laboratory (BIOL 112Y)	
Guest Lecturer , Oregon State University, Corvallis, OR	2003-2004, 2007, 2010
Embryology and Development (Z425/525)	
Teaching Assistant , Oregon State University, Corvallis, OR	1998-1999, 2002-2003
Embryology and Development Laboratory (Z425/525), Cell Biology Laboratory (BI461/561), Terminology in the Health Sciences (PHAR210)	
Teaching Assistant , Pacific Lutheran University, Tacoma, WA	1998
Principles of Biology II Laboratory (BI162)	
Teaching Assistant , University of Washington, Seattle, WA	1994
Halbert Robinson Center for the Study of Capable Youth, Summer Stretch 7 th , 8 th , 9 th Grade Biology Program	

RESEARCH EXPERIENCE

- Lab Head**, Western Oregon University, Monmouth, OR 2008-present
•Immune response of *Drosophila* larvae to ingested bacteria;
Behavioral response to environmental stimulation in *Drosophila*
- Postdoctoral Research Associate**, Oregon State University, Corvallis, OR 2007-2008
•Circadian and steroid hormone influence on neuroendocrine regulation of GnRH secretion, laboratory of Patrick E. Chappell, Ph.D.
- Research Assistant**, Oregon State University, Corvallis, OR 2005
•Development and lineage analysis of neurons involved in courtship and mating behavior in *Drosophila melanogaster*, laboratory of Barbara J. Taylor, Ph.D.
- Doctoral Dissertation Research**, Oregon State University, Corvallis, OR 1999-2005
•Neuronal regulation of sexual behavior in *Drosophila melanogaster*, laboratory of Barbara J. Taylor, Ph.D.

PUBLICATIONS

Baltzley MJ, Zachary ED*, James TA*, Barton S*, Wallace NE*, Torrez SR*, McKechnie MM*, Mendazona RL*, Franco Ramos MC*, Crumrine TA*, **Latham-Scott KL** (2018) Using artificial selection to assay magnetic field orientation in *Drosophila melanogaster*. Submitted, *Invertebrate Biology*

Sarah M. Boomer, Michael J. Baltzley, Angela A. Poole, **Kristin L. Latham-Scott**, Jesse P. Poole (2017) "An In-House Biology Placement Test Improves Success in Majors Introductory Biology". *American Biology Teacher*, **79**(9), 720-727.

Taylor James*, Michael J. Baltzley, Eli Zachary*, Spicie Davis*, **Kristin L. Latham** (2016) "Directional Preference in *Drosophila melanogaster*". *PURE Insights*, **5**, Article 3.

Jerielle Cartales*. (2015) "The Potential Conflict between Forensic Ethnic Identification and Societal Interpretation in America". *PURE Insights*, **4**, Article 2. Faculty Sponsor: **Kristin Latham**

Kristin L. Latham, Ying S. Liu, Barbara J. Taylor. (2013) "A small cohort of neurons co-expressing the male-specific Fruitless proteins and Engrailed are necessary for copulatory behaviors in *Drosophila melanogaster*". *BMC Neuroscience* **14**:57.

Boomer SM and **Latham KL**. (2011) "Manipulatives-based laboratory for majors biology – a hands-on approach to understanding respiration and photosynthesis". *Journal of Microbiology & Biology Education*, **12**(2), 127-134.

Karen J. Tonsfeldt, Cheri P. Goodall, **Kristin L. Latham** and Patrick E. Chappell. (2011) "Oestrogen Induces Rhythmic Expression of the Kisspeptin-1 Receptor GPR54 in Hypothalamic Gonadotrophin-Releasing Hormone-Secreting GT1-7 Cells". *Journal of Neuroendocrinology* **23**, 823–830.

Patrick E. Chappell, Cheri P. Goodall, Karen J. Tonsfeldt, Rachel S. White, Erin Bredeweg, **Kristin L. Latham**. (2009) "Modulation of Gonadotropin-Releasing Hormone (GnRH) Secretion by an Endogenous Circadian Clock". *J Neuroendocrinol.* **21**(4), 339-345.

Lynn M. Ditch, Troy Shirangi, Jeffrey L. Pitman, **Kristin L. Latham**, Kim D. Finley, Philip T. Edeen, Barbara J. Taylor, Michael McKeown. (2005) "*Drosophila retained/dead ringer* is necessary for neuronal pathfinding, female receptivity, and repression of *fruitless* independent male courtship behaviors". *Development* **132**, 155-64.

*DENOTES UNDERGRADUATE AUTHORS

RECENT PRESENTATIONS AT SCIENTIFIC CONFERENCES

59 th Annual Drosophila Research Conference, Philadelphia, PA (poster)	2018
Society for Integrative and Comparative Biology, New Orleans, LA (2 posters ¹)	2017
National Association for Biology Teachers (NABT) Conference, Denver, CO (2 posters ²)	2016
Oregon Academy of Science Annual Meeting, Forest Grove, OR (poster ¹)	2016
Oregon Academy of Science Annual Meeting, Portland, OR (poster ¹)	2015
55 th Annual Drosophila Research Conference, San Diego, CA (poster ¹)	2014
54 th Annual Drosophila Research Conference, Washington D.C. (poster)	2013
ASM Conference for Undergraduate Educators, Englewood, CO (poster ²)	2013
ASM Conference for Undergraduate Educators, San Mateo, CA (poster ²)	2012
Oregon Academy of Science Annual Meeting, Portland, OR (talk)	2011

¹student presenter/s; ²faculty presenter other than KL Latham-Scott

GRANTS AND FELLOWSHIPS

WOU Foundation Competitive Grant , Undergraduate Women in STEM – <i>Funded; \$500</i>	2018
Faculty Development Grant (Travel) , Drosophila Research Conference – <i>Funded; \$900</i>	2018
Faculty Development Grant (Major Projects) , Western Oregon University – <i>Funded; \$3321</i>	2018
Faculty Development Grant (Travel) , AAC&U Transforming STEM Education – <i>Funded; \$914.06</i>	2015
Faculty Development Grant (Major Projects) , Western Oregon University – <i>Funded; \$3500</i>	2015
Faculty Development Grant (Travel) , Oregon Academy of Sciences – <i>Funded; \$150.57</i>	2015
Faculty Development Grant (Travel) , Drosophila Research Conference – <i>Funded; \$1150</i>	2014
Faculty Development Grant (Travel) , Drosophila Research Conference – <i>Funded; \$1200</i>	2013
Faculty Development Grant (Course Release) , Western Oregon University – <i>Approved</i>	2012
Faculty Development Grant (Travel) , Drosophila Research Conference – <i>Funded; \$600</i>	2012
Faculty Development Grant (Major Projects) , Western Oregon University – <i>Funded; \$3500</i>	2012
Faculty Development Grant (Travel) , Drosophila Research Conference – <i>Funded; \$600</i>	2011
Faculty Development Grant (Major Projects) , Western Oregon University – <i>Funded; \$3500</i>	2010
Grant-in-Aid of Research, Sigma Xi , Research Triangle Park, NC – <i>Funded; \$600</i>	2002

AWARDS AND HONORS

Promotion to Associate Professor, with Tenure , Western Oregon University, Monmouth, OR	2013
National Science Foundation ADVANCE Fellowship , Gonzaga University, Spokane, WA	2012
Eli Lilly Graduate Student Travel Award , Society for Neuroscience, Washington, DC	2004
Notable Graduate Student Talk - Soma Award , Society for Neuroscience, Washington, DC	2004
DeLill Nasser Award for Professional Development in Genetics , Genetics Society of America, Bethesda, MD	2002

Outstanding Graduate Student Poster , Center for Gene Research and Biotechnology, Corvallis, OR	2002
National Science Foundation GK-12 Fellowship , Oregon State University, Corvallis, OR	2001-2002
Dean's List , Pacific Lutheran University, Tacoma, WA	1997-1998

PROFESSIONAL EXPERIENCE

Teaching T.A.L.K.S. IV Workshop , Oregon State University, Corvallis, OR	2018
Northwest Biosciences Consortium (NWBC) Workshop , Willamette University, Salem OR	2018
Quoted Genetics Expert , Alpacas Magazine/Winter, pp.39-40 "Monsters on the Ranch"	2017
NWBIO Conference , Northwest Biology Instructors Workshop, Tacoma, WA	2017
Northwest Biosciences Consortium (NWBC) Workshop , Willamette University, Salem OR	2017
NWBIO Conference , Northwest Biology Instructors' Organization Workshop, Eugene, OR	2016
NSF ADVANCE Grant Fellowship , Participant Meeting, Seattle, WA	2015
AAC&U Crossing Boundaries: Transforming STEM Education Conference , Seattle, WA	2015
National Academies Summer Institute (NASI) on Undergraduate Education Fellow , National Academy of Sciences, University of Oregon, Eugene, OR	2015
NSF ADVANCE Grant Fellowship , Alliance Meeting, Phoenix, AZ	2015
Summer Online Teaching Institute (SOTI) , Participant, Monmouth, OR	2014
NSF ADVANCE Grant Fellowship , Participant Meeting, Washington, D.C.	2014
Drosophila Research and Pedagogy Workshop Participant , 54 th Annual Drosophila Research Conference, Washington D.C.	2013
NSF ADVANCE Grant Fellowship , Participant Meeting, Kansas City, MO	2012
Drosophila Research and Pedagogy Workshop Participant , 53 rd Annual Drosophila Research Conference, Chicago, IL	2012
NSF Grant-Writing Workshop Participant , Oregon State University, Corvallis, OR	2011
Drosophila Research and Pedagogy Workshop Participant , 52 nd Annual Drosophila Research Conference, San Diego, CA	2011
Invited Speaker , Yamhill County Career & College Expo, McMinnville, OR	2010
Invited Speaker , Hillside Adventures in Learning Seminar Series, Hillside Retirement Community, McMinnville, OR	2009
Invited Speaker , Summer Bridge Success in Sciences Presentation, Western Oregon University, Monmouth, OR	2009-2010
Teaching Skills Workshops Participant , Center for Teaching and Learning, Oregon State University, Corvallis, OR	2007, 2008

PROFESSIONAL AFFILIATIONS

Genetics Society of America , Bethesda, MD	1999-present
American Federation of Teachers , WOU, Monmouth, OR	2008-present

Association of American Colleges & Universities (AAC&U)	2015-present
Oregon Academy of Science, Portland, OR	2011-2013, 2015-2016
Society for Neuroscience, Washington, DC	2007-2011
The Endocrine Society, Chevy Chase, MD	2008-2010

ACADEMIC ADVISING

Pre-Pharmacy (pre-professional), Biology ~16 students/term	2010-present
Molecular/Cell emphasis, Biology ~8 students/term	2008-present
General emphasis, Biology ~5 students/term	2008-2010
Minor, Biology ~5 students/term	2008-present
Minor, Human Biology ~10 students/term	2014-2017

Honors' Student Theses

Elizabeth Dunn [#]	2018-present
Tori Crumrine [^]	2016-present
Natalie Wallace [*]	2014-2016
Eli Zachary [*]	2013-2015
Alyssa Palmer	2012-2014
Jerielle Raibley	2010-2012

*co-advised with Dr. Mike Baltzley

[^] co-advised with Dr. Ava Howard

[#] co-advised with Dr. Karen Haberman

UNDERGRADUATE RESEARCH MENTEES

<u>Current (2018):</u>	<u>2015-2016</u>	<u>2012-2013</u>
Nicholas Wanderschied[*]	Sarah Thompson^{*†}	Ryan Parker[*]
Tori Crumrine^{*§}	Connor Osterberg^{*†}	Trevor Roush[*]
Eva Batenhorst[*]		Elizabeth Mason[*]
Grace Knapp	<u>2014-2016</u>	
	Stephanie Torrez^{*†}	<u>2011-2012</u>
<u>2016-2018</u>	Natalie Wallace^{*†}	Amy Nicholson[*]
Faye (Beth) Gagnon[*]		Jenna Schneider[*]
Maria Franco Ramos[*]	<u>2013-2015</u>	
	Taylor James^{^§*}	<u>2010-2011</u>
<u>2017-2018</u>	Eli Zachary^{^§*}	Brandon Walker[*]
Erica Csintalan	Aaron Romero[*]	James Kramer
<u>2015-2017</u>	<u>2013-2014</u>	<u>2009</u>
Mariah McKechnie^{^*†}	Adam Pettitt[*]	Amanda LaKamp
Rachel Mendazona^{^*†}	Max Kohen[*]	
	Spicie Davis^{^§*}	

*Poster presentation at Academic Excellence Showcase, WOU

[†]Oral presentation at Academic Excellence Showcase, WOU

[§]Kenneth M. Walker Research Scholarship Recipient, WOU

[^]Presentation at a regional or national conference

INSTITUTIONAL SERVICE

New Student Week, Women in STEM session, Western Oregon University	2018
Women in STEM campus development, Western Oregon University	2017-present

NSM Division Personnel Review Committee (PRC), WOU	2016-present
Scholarship Committee, Biology Department, Western Oregon University	2008-present
Preview Days Department Representative, Western Oregon University	2008-present
Department Head, Biology Department, WOU	2016-2018
NS Building Renovation Committee, WOU	2016-2018
Inquiry & Analysis Professional Learning Community (I&A-PLC), WOU	2017-2018
Search Committee, Tenure-Track Assistant Biology Professor, Western Oregon University	2017-2018
Search Committee Chair, Visiting Assistant Professor, WOU	2017
Search Committee Chair, Temporary Lab Preparator, WOU	2017
Search Committee, NSM Administrative Program Assistant (APA), WOU	2017
Search Committee, NSM Administrative Program Assistant (APA), WOU	2016
Quantitative Literacy Professional Learning Community (QL-PLC), WOU	2016-2017
BI 100 Coordinator, Biology, WOU	2016-2017
Online Teaching Task Force (OTTF), WOU	2016-2018
SOAR Department Representative, Western Oregon University	2008-2018
TSOAR (Early Bird) Department Representative, Western Oregon University	2008-2016
Professor Chat, Western Oregon University	2010-2011, 2016
New Student Week, How to Succeed in Math and Science, Western Oregon University	2011-2013, 2015-2016
Search Committee, Non-tenure-track Biology Positions, Western Oregon University	2016
Search Committee, Student Success Specialists Advising Positions, Western Oregon University	2016
Professional Concerns Committee, NSM Division, Western Oregon University	2009-2015
Review Committee, Student Success Systems (to replace WCS/Wolf-Connect), WOU	2014
Faculty Senator, NSM Representative, Western Oregon University	2011-2014
SEP Summer Bridge Presentation, Success In the Sciences, Western Oregon University	2009-2014
Faculty Senate Executive Committee, Secretary, Western Oregon University	2012-2013
Faculty Senate Executive Committee, At-large Member, Western Oregon University	2011-2012
Search Committee, Non-tenure-track Biology Position, Western Oregon University	2012
Writing-Intensive Committee, NSM Representative, Western Oregon University	2009-2012
Search Committee, Non-tenure-track A&P Position, Western Oregon University	2011
Search Committee, Tenure-track Cell Physiologist, Western Oregon University	2010-2011
Substitute Faculty Senator, Western Oregon University	2010
Search Committee, Non-tenure-track Biology Position, Western Oregon University	2010
Search Committee, Tenure-track Plant Ecophysiologist, Western Oregon University	2008-2009

Seminar Committee, NSM Division, Western Oregon University 2008-2009

RECENT PROFESSIONAL SERVICE

Reviewer, Morgan and Carter Laboratory Manual 2015, 2018
Pearson Higher Education

Grant Reviewer, Murdock College Research Program for Life Sciences, 2015
M.J. Murdock Charitable Trust

Reviewer, DeLill Nasser Award for Professional Development in Genetics, 2012-2015
Genetics Society of America, Bethesda, MD

COMMUNITY SERVICE

American Associate of University Women (AAUW), Panelist 2015
Women in Science, Western Oregon University, Monmouth, OR

Science Olympiad, Event Coordinator – Microbe Mission, Western Oregon University 2012

Hands-On Science, Activity Day at WOU for Oakdale First-grade students 2011

Faculty Sponsor, Crescent Valley High School Student Honors Chemistry Project: 2010-2011
Testing Native Oregon Plants, *Lupinus Rivularis*, *Symphoricarpus*, and *Allium Canadense* as *Drosophila Melanogaster* Repellents